

## REMARKS

Claims 1-26 are pending in this application, with claims 1 and 12 being independent. Claims 1, 3, 12, and 14 have been amended. Claims 23-26 have been added. No new subject matter has been added. Applicant respectfully requests reconsideration of the claims in view of the following remarks.

Claims 1-2, 12-14 and 19-22 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Publication No. 2001/0028678 to Kato et al. (hereinafter “Kato”), in view of U.S. Patent No. 5,909,463 to Johnson et al. (hereinafter “Johnson”); and claims 4-7, and 15-18 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Kato and Johnson in further view of U.S. Patent Publication No. 2002/0006167 to McFarland (hereinafter “McFarland”).

Claim 1 has been amended to recite, “the communications signal transmission modes comprise a wavelet filtered band OFDM mode and a non-wavelet filtered band OFDM mode.” Support for this amendment can be found, for example, in the claims as originally filed and in paragraphs [0023] and [0024] of the Specification. No new matter has been added. Kato, Johnson and McFarland do not teach or suggest a wavelet filtered band OFDM mode. Applicant, therefore, respectfully submits that claim 1 is patentable over the prior art of record.

Claims 2-11, 23-26 depend from claim 1 and add further limitations. It is respectfully submitted that these dependent claims are allowable by reason of depending from an allowable claim as well as for adding new limitations.

Claim 12 has been amended to recite, “the communications signal transmission operating modes include a wavelet filtered OFDM-based mode and a non-wavelet filtered OFDM-based mode.” The prior art of record does not teach or suggest a wavelet filtered band OFDM mode. Applicant, therefore, respectfully submits that claim 12 is patentable over the prior art of record.

Claims 13-22 depend from claim 12 and add further limitations. It is respectfully submitted that these dependent claims are allowable by reason of depending from an allowable claim as well as for adding new limitations.

Claims 23-26 have been added to more comprehensively claim the invention as originally filed. Support for these new claims can be found, for example, in Figure 2 and in paragraphs [0021] to [0024] of the Specification. No new matter has been added. Applicant respectfully submits that these new claims are allowable by reason of depending from allowable claims and adding further limitations.

Applicant has made a diligent effort to place the claims in condition for allowance. However, should there remain unresolved issues that require adverse action, it is respectfully requested that the Examiner telephone Benjamin E. Nise, Applicant's Attorney, at 972-732-1001 so that such issues may be resolved as expeditiously as possible. The Commissioner is hereby authorized to charge, or credit any overpayment, to Deposit Account No. 50-1065.

Respectfully submitted,

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Date



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